

INTEROFFICE MEMORANDUM

Date: January 06, 2004
 To: Arthur L. Williams, Director
 From: Arthur Chang, Technical Services Supervisor
 Re: December 2004 FRM PM_{2.5} Monitoring Update Report

This is a report of December 2004 Federal Reference Method (FRM) PM_{2.5} monthly averages, annual averages, 3-year annual design values, and year-to-year comparison data summaries. (These data are subject to further quality assurance and are not final.)

December 2004

Table 1. PM_{2.5} Monthly Data Summary (µg/m³)

| | Daily Maximum | Daily Minimum | | <u>Monthly</u> |
|-------------------------|--------------------------------|--------------------------------|------------------------|-----------------------|
| <u>Site Name</u> | <u>Conc. & Date</u> | <u>Conc. & Date</u> | <u>Run Time</u> | <u>Average</u> |
| Southwick | 31.1 (12/27) | 3.5 (12/7 & 19) | 100.0 % | 12.7 |
| Wyandotte | 17.1 (12/17&30) | 3.1 (12/19) | 80.6 % | 11.0 |
| Barret | 19.3 (12/17) | 5.0 (12/11) | 80.0 % | 10.8 |
| Watson | 15.7 (12/17) | 4.6 (12/11) | 100.0 % | 9.7 |
| Overall | | | | 12.0 |

The 24-hour average standard is 65 µg/m³.

Table 2. PM_{2.5} Design Values and Year-to-Date Annual Mean Comparisons

| <u>Site Name</u> | Annual Mean(µg/m³) | | | | | | Annual Design Values (1999-2001) | Annual Design Values (2000-2002) | Annual Design Values (2001-2003) | Annual Design Values (2002-2004) |
|--|--------------------------------------|-------------|-------------|----------------------------|-------------|-------------|---|---|---|---|
| | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | | | | |
| Southwick/ <i>Firearms Trn</i> ¹ | 14.6 | 15.4 | 17.2 | 17.1/ 18.7 ¹ | 17.3 | 17.5 | N/A | N/A | N/A | 15.7² |
| Wyandotte | 14.1 | 15.2 | 17.5 | 17.7 | 16.7 | 16.9 | 17.1² | 17.3² | 16.8² | 15.6 |
| Barret | 14.0 | 15.2 | 16.3 | 16.9 | 16.7 | 17.2 | 16.9 | 16.6 | 16.1 | 15.1 |
| Watson | 12.7 | 15.1 | 15.3 | 16.3 | 16.8 | 15.2 | 16.1 | 16.1 | 15.5 | 14.3 |

The annual average standard is 15.0 µg/m³.

¹ *Firearms Training* temporarily replaced Southwick Community Center monitoring during 2001, due to renovation. Twelve quarters of contiguous data are unavailable.

² Design value site for Louisville.